

(e) a flow device assembly having a flow channel arranged along the product material channel such that the flow path extends through the flow channel;

(f) a flow device actuation assembly which is operably connected to alter a posture of said flow channel with respect to the product material channel;

whereby as product material flows in the flow path from the inlet to the product cavity, the flow device actuation assembly is operative to control pressure, volumetric, and/or mass flow rate conditions of the product material filling the product cavity.

2. (Twice Amended) A tooling assembly comprising:

(a) a product material inlet;

(b) first and second product material channels in communication with the product material inlet;

(c) first and second product cavities in communication with the first and second product material channels, respectively;

B1
(d) [the product material inlet,] the first and second product material channels[, and the first and second product cavities define] defining a pair of flow paths for a product material to flow therein from the product material inlet to respective ones of the first and second product cavities;

(e) a pair of flow device assemblies each comprising a flow channel arranged along a respective one of the first and second product material channels such that each of the flow paths extends through a respective one of the flow channels;

(f) a pair of flow device actuation assemblies each of which is operably connected to alter a posture of a respective said flow channel with respect to its respective said product material channel;

whereby as product material flows in the flow path from the inlet to the first and second product cavities, the pair of flow device actuation assemblies are operative to control pressure, volumetric, and/or mass flow rate

conditions of the product material filling the first and second product cavities

3. (Twice Amended) A process for making a part comprising a solidifiable product material, comprising:

(a) flowing the product material in a flow path;

(b) providing a flow channel comprising a portion of the flow path, the flow channel being adjacent to other portions of the flow path;

(c) altering a posture of the flow channel with respect to the adjacent portions of the flow path so that said flow channel is offset from said adjacent portions of the flow path; and

(d) allowing said product material to solidify in said offset flow channel and said adjacent portions of the flow path whereby said part is formed with an impression of said offset flow channel and said adjacent portions of said flow path;

whereby said solidified material in said offset flow channel is offset with respect to said solidified material in said adjacent portions of the flow path.

REMARKS

Claims 1-4 and 16 were rejected as being anticipated by, or unpatentable over, prior art. Claims 1, 2 and 3 have been amended to better define the subject matter which applicants regard as the invention, and to patentably distinguish over the cited prior art. Reconsideration of the rejections is requested in view of the amendments to the claims and the following discussion.

Claims 1-2 were rejected under 35 USC 102(b) as being anticipated by Shah (5,304,341). Claims 1 and 2 relate to a tooling assembly comprising a product material inlet, a product material channel, and a product cavity. The amended claims recite that the product material channel defines a flow path for a product material to flow therein from the product material inlet to the product cavity.

34